

<b>INFORMATION DISCLOSURE CITATION</b>  PTO-1449				ATTY. DOCKET NO. A-54528-9/WH/D (PO233C6)		SERIAL NO. 08/459,141		
MAY 3 1996 PAT. & TRADEMARK OFF.								
				APPLICANT: BERMAN, et al.				
				FILING DATE June 2, 1995		GROUP 1813 16496		
U.S. PATENT DOCUMENTS								
EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
lp	A	4,593,002	6/3/86	Dulbecco	435	1723	1/11/82	
↓	B	5,314,808	5/24/94	Tiollais et al.	435	69.3		
↓	C	4,855,224	8/8/89	Berman et al.	435	68		
↓	D	4,891,315	1/2/90	Watson et al.	435	69.3		
↓	E	4,818,694	4/4/89	Watson et al.	435	68		
lp	F	4,618,578	10/21/86	Burke et al.	435	68		
lp	G	4,317,811	3/2/82	Bertland et al.	424	89		
lp	H	4,374,127	2/2/83	Larson et al.	424	89		
↓	I	4,442,205	4/10/84	Hamer et al.	435	68		
FOREIGN PATENT DOCUMENTS								
EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
	J	0100521	7/27/83	European				
	K	0068693	11/6/82	European				
	L	2949031	6/12/79	Germany				
	M	0060129	9/15/82	European				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
lp	1	Watson et al., "Herpes Simplex Virus Type-1 Glycoprotein D Gene: Nucleotide Sequence and Expression in Escherichia coli" <i>Science</i> , 218:381-384 (October 22, 1982).						
lp	2	Rose et al., "Expression from Cloned cDNA of Cell-Surface Secreted Forms of the Glycoprotein of Vesicular Stomatitis Virus in Eucaryotic Cells" <i>Cell</i> , 30:753-762 (October 1982).						
EXAMINER <i>X. Smith</i>					DATE CONSIDERED 4/17/97			

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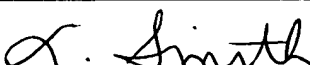
<b>INFORMATION DISCLOSURE CITATION</b>  <b>PTO-1449</b>				<b>ATTY. DOCKET NO.</b> A-54528-9/WHB (PO233C6)		<b>SERIAL NO.</b> 08/459,141	
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<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<b>FOREIGN PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes No
H	N	0243155	10/28/87	EPA	—	—	
	O	0133063	2/13/85	EPA	—	—	
	P	1745283	2/2/84	AU	—	—	
	Q	0001365	4/4/79	EPA	—	—	
	R	8302897	9/1/83	PCT (WO)	—	—	
	S	2105344	3/23/83	UK	—	—	
	T	8504587	10/24/85	PCT (WO)	—	—	
	U	0170169	2/5/86	EPA	—	—	
	V	0168662	1/22/86	EPA	—	—	
	W	0101655	2/29/84	EPA	—	—	
	X	<del>73656</del>	<del> </del>	<del>EPA</del>	<del> </del>	<del> </del>	
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
<b>EXAMINER</b>				<b>DATE CONSIDERED</b>			
<i>L. Smith</i>				4/17/97			

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		FILING DATE June 2, 1995	GROUP 1813 1648
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
Mp	3 <input checked="" type="checkbox"/>	Kaufman et al., "Construction of a Modular Dihydrofolate Reductase cDNA Gene: Analysis of Signals Utilized for Efficient Expression," <i>Molecular and Cellular Biology</i> , 3(11):1304-1319 (1982)	
↓	4 <input checked="" type="checkbox"/>	Chan, "Protective Immunization of Mice with Specific HSV-1 Glycoproteins," <i>Immunology</i> , 49:343-352 (1983).	
↓	5 <input checked="" type="checkbox"/>	Dreesman et al., "Antibody to Hepatitis B Surface Antigen After a Single Inoculation of Uncoupled Synthetic HbsAg Peptides," <i>Nature</i> , 295:158-160 (1982).	
	6 <input checked="" type="checkbox"/>	Wels et al., "An Immunologically Active Chimaeric Protein Containing Herpes Simplex Virus Type 1 Glycoprotein D," <i>Nature</i> , 302:72-74 (March 1983).	
	7 <input checked="" type="checkbox"/>	Bittle et al., "Protection against Foot-and-Mouth Disease by Immunization with Chemically Synthesized Peptide Predicted From the Viral Nucleotide Sequence," <i>Nature</i> , 298(1):30-33 (July 1982).	
	8 <input checked="" type="checkbox"/>	Gerin et al., "Chemically Synthesized Peptides of Hepatitis B Surface Antigen Duplicate the d/y Specificities and Induce Subtype-Specific Antibodies in Chimpanzees," <i>PNAS, USA</i> , 80:2365-2369 (April 1983).	
	9 <input checked="" type="checkbox"/>	Muller et al., "Anti-Influenza Response Achieved by Immunization with a Synthetic Conjugate," <i>PNAS, USA</i> , 79:569-573 (January 1982).	
	10 <input checked="" type="checkbox"/>	Frink et al., "Detailed Analysis of the Portion of the Herpes Simplex Virus Type 1 Genome Encoding Glycoprotein C," <i>Journal of Virology</i> , 45(2):634-647 (February 1983).	
	11 <input checked="" type="checkbox"/>	Simonsen et al., "Isolation and Expression of an Altered Mouse Dihydrofolate Reductase cDNA," <i>PNAS, USA</i> , 80:2495-2499 (May 1983).	
	12 <input checked="" type="checkbox"/>	Urdub et al., "Isolation of Chinese Hamster Cell Mutants Deficient in Dihydrofolate Reductase Activity," <i>PNAS, USA</i> , 77m(7):4216-4220 (July 1980).	
	13 <input checked="" type="checkbox"/>	Godenow et al., "Identification of a BALB/c H-2L <sup>d</sup> Gene by DNA-Mediated Gene Transfer," <i>Science</i> , 215(5):677-679 (February 1982).	
Lp	14 <input checked="" type="checkbox"/>	Middleton et al., "Expression of Cloned Herpesvirus Genes: Detection of Nuclear Antigens from Herpes Simplex Virus Type 2 Inverted Repeat Regions in Transfected Mouse Cells," <i>Journal of Virology</i> , 43(3):1091-1101 (September 1982).	
↓	15 <input checked="" type="checkbox"/>	Zoler et al., "Scientists Engineer Proteins for Cellular Export," <i>Bio/Technology</i> 146-147 (April 1983)	
EXAMINER X. Smith		DATE CONSIDERED 4/17/97	

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		APPLICANT: BERMAN, et al.	
		FILING DATE June 2, 1995	GROUP 1813 1648
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
hp	16	Spear, P.G., "Cell Membranes and Viral Envelopes," <i>Herpes Viruses</i> , 2:709-150 (1980).	
	17	Balachandran et al., "Protection Against Lethal Challenge of BALB/c Mice by Passive Transfer of Monoclonal Antibodies to Five Glycoproteins of Herpes Simplex Virus Type 2," <i>Infect. Immun.</i> , 37:1132-1137 (1982).	
	18	Dix et al., "Use of Monoclonal Antibody Directed Against Herpes Simplex Virus Glycoproteins to Protect Mice Against Acute Virus-Induced Neurological Disease," <i>Infect. Immun.</i> , 34:192-199 (1982).	
	19	Gething et al., "Molecular and Chemical Basis of Virus Virulence and Immunology," <i>Modern Approaches to Vaccines</i> , (pub. Cold Spring Harbor Laboratories) Proceedings of Meeting at Cold Spring Harbor: 262-268.	
	20	Alt et al., "Synthesis of Secreted and Membrane-Bound Immunoglobulin Mu Heavy Chains is Directed by mRNAs that Differ at Their 3' Ends," <i>Cell</i> , 20:293-301 (1980).	
	21	Early et al., "Two mRNAs Can Be Produced From a Single Immunoglobulin u Gene by Alternative RNA Processing Pathways," <i>Cell</i> , 20:313-319 (1980).	
	22	Cheng et al., "Structure of Gene for Membrane and Secreted Murine IgD Heavy Chains," <i>Nature</i> , 296:410-415 (1982).	
	23	Rogers et al., "Gene Segments Encoding Transmembrane Carboxyl Termini of Immunoglobulin Chains," <i>Cell</i> , 26:19-27 (1981).	
	24	Mertz et al., "Double-Blind, Placebo-Controlled Trial of a Herpes Simplex Virus Type 2 Glycoprotein Vaccine in Persons at High Risk for Genital Herpes Infection," <i>Journal of Infectious Diseases</i> , 161:653-660 (1989).	
✓	25	Schrier et al., "Type-Specific Delayed Hypersensitivity and Protective Immunity Induced by Isolated Herpes Simplex Virus Glycoprotein," <i>J. Immunol.</i> , 130(3):1413-1418 (March 1983).	
	26	<del>Alberts et al., "The Plasma Membrane" <i>Molecular Biology of the Cell</i>, (pub. Garland Publishing Inc.: New York) First Edition, 1983, pp. 264-271.</del>	
	27	<del>Hope et al., "Sulphated Glycoproteins Induced by Herpes Simplex Virus," <i>J. G. Virol.</i>, 58:399-415 (1982).</del>	
	28	<del>Gething et al., "Construction of Influenza Haemagglutinin Genes that Code for Intracellular and Secreted Forms of the Protein," <i>Nature</i>, 300:598-603 (1982).</del>	
	29	<del>Sveda et al., "Cell Surface Expression of the Influenza Virus Hemagglutinin Requires the Hydrophobic Carboxy-Terminal Sequences." <i>Cell</i>, 30:649-656 (1982).</del>	
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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
	30	<del>Holland et al., "Secretion of Soluble Truncated Glycoprotein C Gene Product From Cells Infected with Some HSV-1 Glycoprotein C Mutants," Eighth International Herpes Virus Workshop, Oxford, Abstracts, page 114 (July 31, 1983).</del>	
	31	<del>Cohen et al., "Construction of an Antigenic Determinant of Herpes Simplex virus Glycoprotein D Which Stimulates Production of Neutralizing Antibody," Eighth International Herpes Virus Workshop, Oxford, Abstracts, page 268 (July 31, 1983).</del>	
	32	<del>Cohen et al., International Workshop on Herpes Viruses, Bologna, Abstracts, page 89 (July 27-31, 1981).</del>	
mp	33	Wiley et al., "Structural Identification of the Antibody-Binding Sites of Hong Kong Influenza Haemagglutinin and Their Involvement in Antigenic Variation,," <i>Nature</i> , 289:373-378 (1981).	
	34	<del>Wills et al., "Alterations in the Transport and Processing of Rous Sarcoma Virus Envelope Glycoproteins Mutated in the Signal and Anchor Regions," <i>Journal of Cellular Biochemistry</i>, 23:81-94 (1983).</del>	
	35	<del>Eisenberg et al., "Synthetic Glycoprotein D-Related Peptides Protect Mice Against Herpes Simplex Virus Challenge," <i>J. Virol.</i>, 56:1014-1017 (1985).</del>	
mp	36	Gething et al., "Cell-Surface Expression of Influenza Haemagglutinin from a Cloned DNA Copy of the RNA Gene," <i>Nature</i> , 293:620-625 (1981).	
	37	Lusky et al., "Inhibition of SV40 Replication in Simian Cells by Specific pBR322 DNA Sequences," <i>Nature</i> , 293:79-81 (1981).	
↓	38	Lasky et al., "Protection of Mice From Lethal Herpes Simplex Virus Infection by Vaccination with a Secreted Form of Cloned Glycoprotein D," <i>Bio/Technology</i> , (June 1984).	
	39	<del>Berman, et al., "Protection from Genital Herpes Simplex Virus Type 2 Infection by Vaccination with Cloned Type 1 Glycoprotein D," <i>Science</i>, 227:1490-1492 (1985).</del>	
mp	40	Cohen et al., "Localization and Synthesis of an Antigenic Determinant of Herpes Simplex Virus Glycoprotein D That Stimulates the Production of Neutralizing Antibody," <i>J. Virol.</i> , 49:102-108 (1984).	
↓	41	Dietzschold et al., "Synthesis of an Antigenic Determinant of the HSV gD That Stimulates the Induction of Virus-Neutralizing Antibodies and Confers Protection Against a Lethal Challenge of HSV," 145-149.	
↓	42	Eisenberg et al., "Comparative Structural Analysis of Glycoprotein gD of Herpes Simplex Virus Types 1 and 2," <i>J. Virol.</i> , 35:428-434 (1980).	
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		FILING DATE June 2, 1995	GROUP 1813 <i>1618</i>
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
<i>Hb</i>	43	Webster's Ninth New Collegiate Dictionary (1983) p. 1301.	
<i>↓</i>	44	The American Heritage Dictionary, Second college Edition, (1991) p. 384.	
<i>↓</i>	45	Bay Area Bioscience Centre "Northern California's Bioscience Legacy" 1-33 (1991).	
<i>←</i>	46	Berman et al., "Detection of Antibodies to Herpes Simplex Virus with a Continuous Cell Line Expressing Cloned Glycoprotein D," <i>Science</i> , 2:524-527 (1983).	
<i>✓</i>	47	Gibson et al., "Insertion Mutants of Herpes Simplex Virus Have a Duplication of the Glycoprotein D Gene and Express Two Different Forms of Glycoprotein D," <i>J. Virol.</i> , 48(2):396-404 (1983).	
<i>←</i>	48	Jordan et al., "Detection of Herpes Simplex Virus (HSV) Type-1 IgG and IgM Antibodies by Enzyme-Linked Immunosorbent Assay (ELISA)," <i>American Society of Clinical Pathology</i> , 76:467-471 (1981).	
<i>←</i>	49	Lee et al., "Location of the Structural Genes for Glycoproteins gD and gE and for Other Polypeptides in the S Component of Herpes Simplex Virus Type 1 DNA," <i>J. Virol.</i> , 43(1):41-49 (1982).	
<i>←</i>	50	Watson et al., "Characterization of the Herpes Simplex Virus Type 1 Glycoprotein D mRNA and Expression of the Protein in <i>Xenopus</i> Oocytes," <i>Nucleic Acids Research</i> , 11:1507-1522 (1983).	
<i>←</i>	51	Andonov et al., "The Effect of Killed Antiherpes Vaccines," (pub. Institute of Infectious and Parasitic Diseases in Sophia Bulgaria) p. 608-611.	
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